

Infrastructure, environment, buildings

Mr Michael Ribordy
On-Scene Coordinator
USEPA Region 5
77 West Jackson Boulevard (SE-5J)
Chicago, IL 60604-3590

ARCADIS

30 West Monroe, Suite 1710

Chicago Illinois 60603 Tel 312 332 4937 Fax 312 332 4434 www arcadis-us com

Subject

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Allied Paper, Inc /Portage Creek/Kalamazoo River Superfund Site Time-Critical Removal Action – Former Plainwell Impoundment Monthly Report (November 2008)

If you have any questions, please do not hesitate to contact me.

**SEDIMENTS** 

Dear Mike

Attached is the 21<sup>st</sup> monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time-Critical Removal Action (TCRA). This progress report is submitted in accordance with Section 19A of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Removal Action (Docket No. V-W-07-C-863).

Contact Steve

Steve Garbaciak

December 15, 2008

Phone

312 332.4937 ext 12

Email

steve garbaciak@ arcadis-us com

Our ref

B0064530.00014

Sincerely,

Onlocicity

**ARCADIS** 

Stephen Garbaciak Jr , P.E.

Vice President

Attachment

Copies

Samuel Borries, USEPA
Paul Bucholtz, MDEQ
James Saric, USEPA
Jeff Keiser, CH2M HILL
Kathy Huibregtse, RMT Inc.
J. Michael Davis, Esq., Georgia-Pacific LLC
Mellonie Fleming, Esq., Georgia-Pacific LLC
David Guier, Millennium Holdings, LLC
Stephen Weishar, Millennium Holdings, LLC
Paul Montney, P.E., Georgia-Pacific LLC
L Chase Fortenberry, P.G., Georgia-Pacific LLC
Mark Brown, Ph.D., Georgia-Pacific LLC
Garry Griffith, P.E., Georgia-Pacific LLC
Michael Erickson, P.E., ARCADIS



# MONTHLY REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/ KALAMAZOO RIVER SUPERFUND SITE TIME-CRITICAL REMOVAL ACTION – FORMER PLAINWELL IMPOUNDMENT

# **REPORT #21, NOVEMBER 2008**

## PREPARED BY ARCADIS DECEMBER 15, 2008

## ON BEHALF OF THE KALAMAZOO RIVER STUDY GROUP

### SUBMITTED TO

MICHAEL RIBORDY, ON-SCENE COORDINATOR
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### **REPORT #21, NOVEMBER 2008**

### Significant Developments and Activities During the Period

- On November 5, the Kalamazoo River Study Group (KRSG) submitted notification to the United States Environmental Protection Agency (USEPA) and Michigan Department of Environmental Quality (MDEQ) that installation of the post-construction monitoring wells would begin during the week of November 10. This notification was made pursuant to Section 17C of the AOC. These wells are described in the Former Plainwell Impoundment Time-Critical Removal Action Design Report Section 5.7, as well as Section 3 4 6 of the Area 1 Supplemental Remedial Investigation/Feasibility Study Work Plan.
- On November 6 and 12, the KRSG received copies of analytical data for split samples collected by USEPA.
- On November 7 and 20, the KRSG submitted copies of analytical data from TCRA sampling activities to USEPA.
- On November 12, the KRSG submitted the 67<sup>th</sup>, 68<sup>th</sup>, 69<sup>th</sup>, 70<sup>th</sup>, and 71<sup>st</sup> Weekly Construction Report for the Plainwell TCRA to USEPA and MDEQ
- On November 14, the KRSG submitted the 72<sup>nd</sup> Weekly Construction Report for the Plainwell TCRA to USEPA and MDEQ.
- On November 17, the KRSG submitted the 20<sup>th</sup> Monthly Report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site TCRA for October 2008 to USEPA
- On November 19, representatives from the KRSG, USEPA, MDEQ, and Michigan Department of Natural Resources attended the monthly Stakeholder's Meeting in Plainwell.
- On November 20, the KRSG submitted survey coordinate data to MDEQ for soil cores collected by MDEQ during the week of October 13 and 20
- On November 21, the KRSG submitted the 73<sup>rd</sup> Weekly Construction Report for the Plainwell TCRA to USEPA and MDEQ.
- On November 25, the KRSG and USEPA conducted a briefing for local members of the media

### Data Collected and Field Activities Conducted During the Period

During the week of November 3, the KRSG continued excavation of Removal Area 13A, continued
decommissioning and removal of Staging Area 5S, continued removal and decontamination of
resuspension controls, continued installation of topsoil and seeding in newly exposed floodplain soils

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due to falling river elevations, continued restoration activities in the completed portions of Removal Area 13A, continued planting trees and shrubs that had been deferred from the spring to the fall due to species availability, and continued removal of the Water Control Structure (WCS). Three soil confirmation samples (TS20249 through TS20251) were collected from Removal Area 13A. Two surface water samples (TS30099 and TS30100) were collected from locations 300 feet downstream and 200 feet upstream, respectively, of Removal Area 13A for polychlorinated biphenyl (PCB) analysis. A rinse blank (TS30101) was also collected Wastewater samples W\_SA5S\_Influ\_0023, W\_SA5S\_MidA\_0020, and W\_SA5S\_EffluA\_0020 were collected from the water treatment system located at Staging Area 5S. Table A summarizes the samples collected. Solidified non-TSCA material from the staging areas was loaded into trucks and transported to the Ottawa County Farms Landfill in Coopersville, Michigan or the C&C Landfill in Marshall, Michigan for disposal; solidified TSCA material was transported to the Wayne County Landfill in Belleview, Michigan for disposal

- During the week of November 10, the KRSG continued excavation of Removal Area 13A, continued decommissioning and removal of Staging Area 5S, continued removal and decontamination of resuspension controls, began installation of post-construction monitoring wells, and continued removal of the WCS. Three soil confirmation samples (TS20252 through TS20254) and one duplicate sample (TS20255) were collected from Removal Area 13A and Upland Area 13A1. The USEPA collected a split sample of TS20252 (APS-111108-45-SD/TS20252). Two surface water samples (TS30102 and TS30103) were collected from locations 300 feet downstream and 200 feet upstream, respectively, of Removal Area 13A for PCB analysis. A rinse blank (TS30104) was also collected.
   Two soil samples (MW-13 [6-8'] and MW-14 [4-6']) were collected from pilot borings installed prior to placing post-construction monitoring wells. Table A summarizes the samples collected. Solidified non-TSCA material from the staging areas was loaded into trucks and transported to the Ottawa County Farms Landfill in Coopersville, Michigan or the C&C Landfill in Marshall, Michigan for disposal; solidified TSCA material was transported to the Wayne County Landfill in Belleview, Michigan for disposal.
- During the week of November 17, the KRSG hosted the monthly Stakeholder's Meeting, completed decommissioning and removal of Staging Area 5S, continued removal and decontamination of resuspension controls, continued installation of post-construction monitoring wells, continued restoration activities in Removal Areas 13A and 13B, began grading the island adjacent to the existing spillway, removed a pair of sheets remaining from the Phase 1 Cofferdam, and continued removal of the WCS. Two surface water samples (TS30105 and TS30106) were collected from locations 300 feet downstream and 200 feet upstream, respectively, of Removal Area 13A for PCB analysis. A rinse blank (TS30107) was also collected. One set of wastewater samples (W\_SA4N\_X\_0023) was collected from the water treatment system located at Staging Area 4N. Each set of wastewater samples consists of one influent (e.g., W\_SA4N\_Influ\_0023), two mid-point (e.g., W\_SA4N\_MidA\_0023 and W\_SA4N\_MidB\_0023), and two effluent samples (e.g., W\_SA4N\_EffluA\_0023 and W\_SA4N\_EffluB\_0023). One PCB wipe sample (VT-1 111808) was collected from the vacuum truck used to remove untreated water from Staging Area 5S to ensure that

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the truck was property decontaminated prior to demobilizing from the site. Table A summarizes the samples collected. Solidified non-TSCA material from the staging areas was loaded into trucks and transported to the Ottawa County Farms Landfill in Coopersville, Michigan or the C&C Landfill in Marshall, Michigan for disposal; solidified TSCA material was transported to the Wayne County Landfill in Belleview, Michigan for disposal.

- During the week of November 24, the KRSG continued restoration activities in Removal Area 13A, completed grading of the island downstream of the existing spillway, began removing the remaining sediment and access across the Phase 2 Cofferdam, and continued removal of the WCS. Two surface water samples (TS30108 and TS30109) were collected from locations 300 feet downstream and 200 feet upstream, respectively, of Removal Area 13A for PCB analysis. A duplicate sample (TS30110) and a rinse blank (TS30111) were also collected One set of wastewater samples (W\_SA4N\_X\_0024) was collected from the water treatment system located at Staging Area 4N. Table A summarizes the samples collected Solidified non-TSCA material from the staging areas was loaded into trucks and transported to the Ottawa County Farms Landfill in Coopersville, Michigan or the C&C Landfill in Marshall, Michigan for disposal; solidified TSCA material was transported to the Wayne County Landfill in Belleview, Michigan for disposal.
- As of November 30, approximately 80,000 cubic yards of material had been excavated from Removal Areas 1, 2A and 2B, 3A and 3B, 4A and 4B, 5, 6A and 6B, 7, 8, 9A, 9B, 10A, 10B, 11A, 11B, 12A, 12B, 13A, 13B, Mid-Channel Areas A, B, and C, the Phase 1 Cofferdam Area, the Phase 2 Cofferdam Area, Upland Areas 3A1, 3A2, 4A1, 6B1, 10B1, 11A1, 12A1, 13A1, and Islands 1, 2, and 3

### Laboratory Data Received During the Period

- During the week of November 3, the KRSG received analytical data for soil confirmation samples TS20249 through TS20251, surface water samples TS30089 through TS30095 (collected in October), and wastewater samples W\_SA5S\_Influ\_0023, W\_SA5S\_MidA\_0020, and W\_SA5S\_EffluA\_0020.
- During the week of November 10, the KRSG received analytical data for soil confirmation samples TS20252 through TS20255, USEPA split sample APS-111108-45-SD/TS20252, pilot boring soil samples MW-13 (6-8') and MW-14 (4-6') and target compound list (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), PCBs, TCL pesticides, total organic carbon (TOC) and Resource Conservation and Recovery Act (RCRA) metal data for soil sample TS10005 (collected in October). The diesel range organics (DROs) and gasoline range organics (GROs) data were received in October. Soil sample TS10005 was collected from over-excavated floodplain material in Removal Area 13A to potentially be used as cover material in upland areas.

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- During the week of November 17, the KRSG received analytical data for surface water samples
  TS30096 through TS30098 (collected in October), wastewater sample set W\_SA4N\_X\_0023, and
  PCB wipe sample VT-1 (111808)
- During the week of November 24, the KRSG received analytical data for surface water samples TS30099 through TS30101.
- The KRSG is awaiting analytical results for surface water samples TS30102 through TS30111 and wastewater sample set W SA4N X 0024.

#### Issues Encountered and Actions Taken

- As established in the TCRA Design Report, some floodplain areas may be over-excavated to include material with PCB concentrations believed to be less than 5 milligrams per kilogram (mg/kg). This material can be sampled and potentially reused as cover material to enhance the riparian habitat in upland areas located outside the removal scope of the TCRA. A nine-part composite sample (TS10005) was collected on October 29 from the potentially re-usable soil stockpiled from Removal Area 13A and analyzed for DROs, GROs, TCL VOCs, TCL SVOCs, PCBs, TCL pesticides, TOC, and RCRA metals. A lead concentration of 1,090 mg/kg was detected in the sample. The analytical results were compared to the applicable Part 201 cleanup criteria and Part 213 risk-based screening levels (RBSLs) provided in MDEQ's Remediation and Redevelopment Division (RRD) Operational Memorandum No. 1 (Table 2, Column #19, Direct Contact Criteria & RBSLs), issued by the MDEQ RRD on January 23, 2006. The lead concentration exceeds the Direct Contact Criterion RBSL of 400 mg/kg. As such, the stockpiled material was transported offsite for disposal, and not used for cover material.
- Installation of the post-construction monitoring well network was temporarily postponed until the WCS and Phase 2 Cofferdam were completely removed and the groundwater and surface water were allowed to return to their natural elevations, unaffected by any water diversion structures in the river. Pilot borings will be installed at the monitoring well locations and temporary piezometers will be used to monitor the water level in order to determine when the ground and surface water has returned to their natural elevations.

### **Developments Anticipated During the Next Reporting Period**

During the week of December 1, the KRSG is scheduled to continue excavation activities in Removal
Area 13A and in the Phase 2 Cofferdam Area; continue removal of the WCS, continue removal and
decontamination of resuspension controls and project equipment; continue removal of access across
the Phase 2 Cofferdam; continue restoration activities in Removal Area 13A; and continue loading
and transporting solidified material to the appropriate landfill.

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- During the week of December 7, the KRSG is scheduled to continue excavation activities in Removal
  Area 13A and in the Phase 2 Cofferdam Area, continue removal of the WCS, continue removal of
  access across the Phase 2 Cofferdam; continue removal and decontamination of resuspension
  controls and project equipment; continue restoration activities in Removal Area 13A, and continue
  loading and transporting solidified material to the appropriate landfill
- During the week of December 14, the KRSG is scheduled to complete excavation activities in Removal Area 13A and in the Phase 2 Cofferdam Area; begin removal of the Phase 2 Cofferdam, continue removal and decontamination of resuspension controls and project equipment; continue removal of the WCS; begin decommissioning of Staging Area 4N, host the monthly Stakeholder's Meeting; and continue loading and transporting solidified material to the appropriate landfill
- During the week of December 21, the KRSG is scheduled to continue removal of the Phase 2
   Cofferdam; continue removal of the WCS, continue removal and decontamination of resuspension controls and project equipment, and continue decommissioning of Staging Area 4N
- During the week of December 28, the KRSG is scheduled to complete removal of the Phase 2
  Cofferdam; continue removal and decontamination of resuspension controls and project equipment,
  and complete decommissioning of Staging Area 4N.
- The KRSG will continue to submit the Weekly Construction Report for the Plainwell TCRA to USEPA and MDEQ in December.
- The KRSG will continue to submit copies of analytical data from TCRA sampling activities to USEPA in December.
- Throughout December, the KRSG will, as necessary, continue to submit Subcontractor Qualification Notifications to USEPA, as required by Paragraph 11 of the TCRA AOC

### Kalamazoo River Study Group Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Former Plainwell Impoundment TCRA Monthly Report #21, November 2008

## Table A — Summary of Samples Collected and Data Received in November 2008

Sample ID	Sample Date	Data Received	Sample Delivery Group	Laboratory	Sample Location	Analysis Conducted	PCB Result	PCB Action	Response Action
- "Stall I to the " " will at	T <sub>a</sub> u <u>a - F<sub>a</sub>-t</u> <sub>a</sub> R	رف المي إلوالي ورد؟	oral dikemon ta	The State of the	Soil Confirmation Sample	<b>98</b> ឯកនិស្សិតិសិ	-722-12 31 MA	Carry Carry Transfer Street	
TS20249		1			RA 13A, Grid 8B	PCBs	0 54 mg/kg	5 mg/kg	None
TS20250	11/03/08	11/05/08	084618	KAR Labs	RA 13A, Grid 7A	PCBs	< 0 33 mg/kg	5 mg/kg	None
TS20251		ţ			RA 13A, Grid 7B	PCBs	2 5 mg/kg	5 mg/kg	None
TS20252 <sup>1</sup>	11/11/08	11/12/08	084756	KAR Labs	RA 13A, Grid 5A TSCA	PCBs	4 2 mg/kg	5 mg/kg	None
APS-111108-45- SD/TS20252	11/11/08	11/12/08	0811204	TriMatrıx Laboratories	RA 13A, Grid 5A TSCA	PCBs	1.4 mg/kg J	5 mg/kg	None
TS20253			-		RA 13A, Grid 6A TSCA	PCBs	1 8 mg/kg	5 mg/kg	None
TS20254 [TS20255]	11/11/08	11/12/08	084756	KAR Labs	Upland Area 13A1, Grid 6	PCBs [PCBs]	1 0 mg/kg [1 0 mg/kg]	5 mg/kg [5 mg/kg]	None [None]
学者医院 1415年 14月1日代		وأفارا إيران فيراد فأ	The formation	Post-Cor	struction Monitoring Well Pilot i	Boring Soil Samp	le		ar allycept jage but at a
			084756	KAR Labs	Pilot bonng installed prior to		< 0 33 mg/kg	No Action Limit	None
MW-13 (6-8')	MW-13 (6-8') 11/10/08	/10/08 11/12/08			setting post-construction monitoring well MW-13	PCBs			
MW-14 (4-6')	11/10/08	11/12/08	084756	KAR Labs	Pilot boring installed prior to setting post-construction monitoring well MW-14	PCBs	< 0 33 mg/kg	No Action Limit	None
	eg akira is	ير "نيو تا ۱۳۱۰ع	ر الرام الأهمان و العام .	Jan Jan Jan	Soil Reuse Sample	* 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	r the first teaching a gift	՝ <sub>Ծան</sub> ում շահայում հերագույ	Fire the supplemental state of the second
TS10005	10/29/08	11/12/08 (TAL)	TCRA96_SDSP (TAL)	KAR Labs and TAL	9-part composite sample from over-excavated floodplain material in Removal Area 13A to potentially be used as cover in upland priority areas	PCBs, TCL VOCs, TCL SVOCs, RCRA Metals, DROs, GROs, TOC, and TCL Pesticides	0 16 mg/kg	1 mg/kg	Do not use as cover Lead concentration (1,090 mg/kg) exceeded applicable criteria <sup>2</sup> Material transported to landfill for disposal DRO and GRO data received from KAR Labs in October
The second of th	:	المعالم والمستران والمستران	- 3,7 , 4 2 " 24	A Car	Surface Water Samples	to fall kind.	11 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	أرزم والوري ووا عول الع	The state of the s
TS30092 [TS30089]	10/15/08	11/05/08	TCRA91 SDSP		300' downstream RA 13A	PCBs [PCBs]	< 0 051 µg/L [< 0 048 µg/L]	No Action Limit [No Action Limit]	None [None]
TS30090					200' upstream of RA 13A	PCBs	< 0 051 µg/L	No Action Limit	None
TS30091					Rinse Blank	PCBs	< 0 060 μg/L	No Action Limit	None
TS30093		3/08 11/07/08	TCRA93_SDSP	TAL	300' downstream RA 13A	PCBs	< 0 051 µg/L	No Action Limit	None
TS30094	10/23/08				200' upstream of RA 13A	PCBs	< 0 051 µg/L	No Action Limit	None
TS30095					Rinse Blank	PCBs	< 0 051 µg/L	No Action Limit	None
TS30096	10/30/08	11/19/08	TCAR95_SDSP	TAL	300' downstream RA 13A	PCBs	< 0 051 µg/L	No Action Limit	None
TS30097					200' upstream of RA 13A	PCBs	< 0 050 µg/L	No Action Limit	None
TS30098					Rinse Blank	PCBs	< 0 054 μg/L	No Action Limit	None
TS30099			TCAR98_SDSP	TAL	300' downstream RA 13A	PCBs	< 0 057 µg/L	No Action Limit	None
TS30100	11/06/08	11/29/08			200' upstream of RA 13A	PCBs	< 0 057 µg/L	No Action Limit	None
TS30101					Rinse Blank	PCBs	< 0 048 µg/L	No Action Limit	None

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### Kalamazoo River Study Group Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Former Plainwell Impoundment TCRA Monthly Report #21, November 2008

## Table A — Summary of Samples Collected and Data Received in November 2008

Sample ID	Sample Date	Data Received	Sample Delivery Group	Laboratory	Sample Location	Analysis Conducted	PCB Result	PCB Action	Response Action
	(Marie Land	ATATEMA.		建筑 等 四次数。			HER A TICKER AND	Stuffen Griffing	<u> Parasaka Marajadia (militak elek</u>
TS30102					300' downstream RA 13A	PCBs		-	-
TS30103	11/13/08	NR	NR	TAL	200' upstream of RA 13A	PCBs		-	<del>-</del> <del>-</del>
TS30104					Rinse Blank	PCBs		-	<u> </u>
TS30105	11/20/08	NR		TAL	300' downstream RA 13A	PCBs	-	<u>-</u>	
TS30106			NR		200' upstream of RA 13A	PCBs		•	<u> </u>
TS30107			<u> </u>		Rinse Blank	PCBs		<u></u>	
TS30108		ì		TAL	300' downstream RA 13A	PCBs	<u> </u>		<u> </u>
TS30109	11/25/08	NR	NR		200' upstream of RA 13A	PCBs	-	-	<del>-</del>
[TS30110]		""			200 upstream of KA 10A	[PCBs]	[-]	[-]	[-]
TS30111					Rinse Blank	PCBs	<u> </u>		<u> </u>
- 1 表 · 新春 / 18 12 12 12 12 12 12 12 12 12 12 12 12 12	e,	the file come.		rand of the	Wastewater Samples	to programme and the	· 通过,14分类,1	Light to the first to	والمرافق والتراوي والمناف والموارد والمنافق والمتعالم
W_SA4N_Influ_0023				KAR Labs	Staging Area 4N, Discharge 23, influent sample	PCBs	0 2 μg/L	No Action Limit	None
W_SA4N_MidA_0023		3 11/18/08	084844		Staging Area 4N, Discharge 23, midpoint sample, right side	PCBs	< 0 1 µg/L	No Action Limit	None
W_SA4N_EffluA_0023	11/17/08				Staging Area 4N, Discharge 23, effluent sample, right side	PCBs, TSS, P	< 0 1 µg/L	0 2 μg/L per discharge, Monthly Average of 2 6 x 10-5 μg/L	None TSS = <4 mg/L, Action Limit = 45 mg/L, P=0 08 mg/L, no action limit
W_SA4N_MidB_0023					Staging Area 4N, Discharge 23, midpoint sample, left side	PCBs	< 0 1 µg/L	No Action Limit	None
W_SA4N_EffluB_0023					Staging Area 4N, Discharge 23, effluent sample, left side	PCBs, TSS, P	< 0 1 µg/L	0 2 μg/L per discharge, Monthly Average of 2 6 x 10-5 μg/L	None TSS = <4 mg/L, Action Limit = 45 mg/L, P=0 08 mg/L, no action limit
W_SA4N_Influ_0024		OB NR	NR	KAR Labs	Staging Area 4N, Discharge 24, influent sample	PCBs	-	-	-
W_SA4N_MidA_0024					Staging Area 4N, Discharge 24, midpoint sample, right side	PCBs	-	-	-
W_SA4N_EffluA_0024	11/26/08				Staging Area 4N, Discharge 24, effluent sample, right side	PCBs, TSS	-	-	-
W_SA4N_MidB_0024					Staging Area 4N, Discharge 24, midpoint sample, left side	PCBs	-	-	•
W_SA4N_EffluB_0024					Staging Area 4N, Discharge 24, effluent sample, left side	PCBs, TSS	-	-	-
W_SA5S_Influ_0023		05/08 11/06/08	084666	KAR Labs	Staging Area 5S, Discharge 23, influent sample	PCBs	< 0 1 μg/L	No Action Limit	None
W_SA5S_MidA_0020	11/05/08				Staging Area 5S, Discharge 23, midpoint sample, right side	PCBs	< 0 1 µg/L	No Action Limit	None
W_SA5S_EffluA_0020					Staging Area 5S, Discharge 23, effluent sample, right side	PCBs, TSS, P	< 0 1 μg/L	0 2 μg/L per discharge, Monthly Average of 2 6 x 10-5 μg/L	None TSS = <4 mg/L, Action Limit = 45 mg/L, P=0 65 mg/L, no action limit

See Notes on Page 3

# Kalamazoo River Study Group Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Former Plainwell Impoundment TCRA Monthly Report #21, November 2008

#### Table A — Summary of Samples Collected and Data Received in November 2008

Sample ID	Sample Date	Data Received	Sample Delivery Group	Laboratory	Sample Location	Analysis Conducted	PCB Result	PCB Action "Limit	Response Action
PCB Wipe Sample of the Control of th									
VT-1 (111808)	11/18/08	11/20/08	084870	KAR Labs	Wipe sample from vacuum truck used to transport untreated water from Staging Area 5S	ł	0 3 μg per 100 cm <sup>2</sup>	10 μg per 100 cm <sup>2 3</sup>	None

#### Notes:

- 1 Split sample collected by USEPA
- 2 Analytical results compared to applicable Part 201 cleanup criteria and Part 213 RBSLs provided in MDEQ's RRD Operational Memorandum No 1 (Table 2, Column #19, Direct Contact Criteria & RBSLs)
- 3 The decontamination standard for non-porous materials previously in contact with PCB-containing liquid according to Federal Regulations (Title 40, Chapter 1, Subchapter R, Part 761 79 3)
- J The compound was positively identified, however, the associated numerical value is an estimated concentration only
- \* USEPA split samples are shown in bold and italicized font
- \* Duplicate samples are shown in brackets
- \* Analytical results have not been validated

DRO - diesel range organic

GRO - gasoline range organic

MDEQ - Michigan Dept of Environmental Quality

NR - not received P - phosphorus

PCBs - polychlorinated biphenyls

RA - Removal Area

RBSL - Risk Based Screening Level

RCRA - Resource Conservation and Recovery Act

RRD - Remediation Redevelopment Division

SVOCs - semivolatile organic compounds

TAL - TestAmerica Laboratories

TCL - target compound list

TOC - Total Organic Carbon

TSCA - Sample collected from portion of sampling grid with PCB

concentrations greater than 50 mg/kg pnor to excavation

TSS - total suspended solids

VOCs - volatile organic compounds

cm<sup>2</sup> - square centimeters

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

μg/L - micrograms per liter